

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/005,535	11/08/2001		Shih-Zheng Kuo	JCLA7062	9209
7590 09/23/2004			EXAMI	NER	
J.C. Patents, I	Inc.		KASSA, YOSEF		
Suite 250 4 Venture				ART UNIT	PAPER NUMBER
Irvine, CA 92	2618			2625	9
				DATE MAILED: 09/23/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
_	10/005,535	KUO, SHIH-ZHENG					
Office Action Summary	Examiner	Art Unit					
	YOSEF KASSA	2625					
The MAILING DATE of this communicatio	n appears on the cover sheet wi	ith the correspondence address					
Period for Reply	EDLY IC CET TO EVOIDE AM	ONTU(O) FDOM					
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory properties of the period for reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a ron. a reply within the statutory minimum of thin beriod will apply and will expire SIX (6) MON statute, cause the application to become AE	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	Nov. 08. 2001.						
	This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the m							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-4</u> is/are pending in the applicat	ion						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	narawii irom concideration.						
6)⊠ Claim(s) <u>1-3</u> is/are rejected.							
7) Claim(s) 4 is/are objected to.							
8) Claim(s) are subject to restriction a	and/or election requirement.						
Application Papers							
	min ou						
9) The specification is objected to by the Exa		labiantad ta butha Furniana					
10) The drawing(s) filed on <u>08 November 200</u>							
Applicant may not request that any objection to	• • •	• •					
Replacement drawing sheet(s) including the control of the control	_	• •					
Priority under 35 U.S.C. § 119							
<u> </u>							
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur	ments have been received. ments have been received in A	pplication No					
3. Copies of the certified copies of the	•	received in this National Stage					
application from the International Bo * See the attached detailed Office action for a	` '''	received					
	a not of the continue copies flot	roccived.					
Attachment(s)							
1) Motice of References Cited (PTO-892)		Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-94)		s)/Mail Date					
 Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 	6) Other:	nformal Patent Application (PTO-152) —·					

Art Unit: 2625

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishikawa et al (U.S. Patent 6,011,877), and further in view of Caspi (U.S. Patent 5,774,572).

With regard to claim 1, Ishikawa et al discloses a method of enhancing, i.e., quality correction, modulation transfer function performance (see col. 5, lines 39-43), obtaining smooth image, i.e., original image, digital data (see col. 5, lines 40-43); scanning the object in a forwarding direction, i.e., Horizontal direction, and a direction perpendicular (the mathematical relationship of vertical and horizontal scanning is perpendicular to each other) to the forwarding direction (see Fig. 8A, item a and b); and processing digital data of a calculation pixel, i.e., extracted character analyzed, obtained by scanning the object according to the smooth image digital data (see col. 7, lines 46-52).

Ishikawa et al did not explicitly call for scanning an object by using a scanner with a linear sensor. However, at the same field of endeavor, Capsi discloses this feature (see col. 5, lines 54-67). At the time of invention was made, it would have been

Art Unit: 2625

obvious to an ordinary skill in the art to incorporate the teaching of Capsi's linear array CCD's into Ishikawa et al system. The motivation doing so is to produce a digital image of an object with a given resolution and processing the image to produce an image object at a resolution greater than the given resolution.

With regard to claim 2, Ishikawa et al discloses wherein the smooth image digital data is obtained prior to scanning the object (see col. 7, lines 24-27, that is, the original image is obtain before scanning).

With regard to claim 3, While Ishikawa et al discloses obtaining the smooth image digital data, he is silent about obtained smooth image from a smooth image region with a uniform scan brightness. However, at the same field of endeavor, Capsi discloses this feature (see col. 6, lines 20-24). At the time of invention was made, it would have been obvious to an ordinary skill in the art to incorporate the teaching of Capsi's scanning uniform bright object into Ishikawa et al system. The motivation doing so is to compensate the brightness of each pixel in the object.

Allowable Subject Matter

2. Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 2625

Other Prior Art Cited

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent No. (5,278,653) to Mead discloses methods and apparatus for digital correction of afterglow in flying spot scanners.

US Patent No. (5,910,795) to Whittaker discloses digital image signal processing.

US Patent No. (6,667,815) to Nagao discloses method and apparatus for processing images.

US Patent No. (6,332,574) to Shigekusa et al discloses method of reading bar code.

US Patent No. (5,949,924) to Noguchi et al discloses image processing apparatus, method and computer program product.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOSEF KASSA whose telephone number is (703) 306-5918. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, BHAVESH MEHTA can be reached on (703) 308-5246. The fax phone numbers for the organization where this application or proceeding is assigned is (703)

Art Unit: 2625

872-9306 for regular communication and (703) 872-9306 for after Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the customer service office whose telephone number is (703) 306-5631. The group receptionist number for TC 2600 is (703) 305-4700.

PATENT EXAMINER

Yosef Kassa

09/13/04.